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# PATENT ABSTRACTS OF JAPAN

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## (54) ULTRASONIC DOPPLER BLOOD STREAM MEASUREMENT APPARATUS

(57) Abstract:

**PURPOSE:** To enable a blood stream analysis and a hearing of Doppler blood stream sound by storing Doppler blood stream data after A/D conversions into memories and by sending the data read out of the memories to a frequency analyzing unit.

**CONSTITUTION:** Doppler blood stream data put out of the first and second A/D converters 15, 16 are put into and stored by the first and second memories 23, 24 respectively during an examination of blood stream. In case of carrying out a blood stream analysis after the examination, the Doppler blood stream data stored in the memories 23, 24 are read out and supplied to a frequency analyzer 17, wherein various kinds of frequency analyses are carried out according to a requirement, and the results of analyses are displayed on a TV monitor 18 as a blood stream wave form. In case of hearing Doppler blood stream sounds, changeover switches 29, 30 of blood stream sound switching units 27, 28 are turned to a<sub>1</sub>, a<sub>2</sub> sides respectively, the Doppler blood stream data read out of

the memories 23, 24 are converted into analog signals by respective D/A converters 25, 26, the Doppler signals are put into AMP's 19, 20 and the amplified signals are put out of respective speakers 21, 22 as a Doppler blood stream sound.

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